

Title (en)  
SPEAKING DEVICE HAVING HAND-FREE CONVERSATIONAL FUNCTION

Title (de)  
SPRECHVORRICHTUNG MIT EINER WECHSELSEITIGEN FREISPRECHFUNKTION

Title (fr)  
DISPOSITIF DE TRANSMISSION DE PAROLE A FONCTION CONVERSATIONNELLE MAINS LIBRES

Publication  
**EP 0471083 B1 19980708 (EN)**

Application  
**EP 91904460 A 19910216**

Priority  

- JP 9100192 W 19910216
- JP 3785390 A 19900219
- JP 3566090 A 19900216

Abstract (en)  
[origin: US5479502A] A speaking apparatus having a handfree conversation function, provided with an echo canceler which can cancel the echo caused by direct acoustic coupling between a speaker and a microphone positioned in a system having a casing, a ground surface and a speech switching circuit. In the apparatus, the amount of insertion attenuation of the transmitted and received signal is set with an upper limit of the amount of attenuation sufficient for cancelling the echo caused by the indirect acoustic coupling determined by the location where the speaking apparatus is used. In addition, the echo canceler and the speech switching circuit share optimum functions to obtain an excellent speaking quality apparatus with an inexpensive and small sized processing circuit.

IPC 1-7  
**H04M 1/60; H04M 9/08**

IPC 8 full level  
**H04M 9/08** (2006.01)

CPC (source: EP US)  
**H04M 9/082** (2013.01 - EP US)

Cited by  
EP0739123A3; DE19753224A1; DE19753224C2; US5404397A; EP0566194A3; US6636604B1; WO9632804A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**US 5479502 A 19951226**; CA 2056455 C 19960611; DE 69129719 D1 19980813; DE 69129719 T2 19990114; EP 0471083 A1 19920219; EP 0471083 A4 19930901; EP 0471083 B1 19980708; JP 3047300 B2 20000529; WO 9112683 A1 19910822

DOCDB simple family (application)  
**US 24351894 A 19940516**; CA 2056455 A 19910216; DE 69129719 T 19910216; EP 91904460 A 19910216; JP 50479291 A 19910216; JP 9100192 W 19910216